



February 1991

AgriFax 142/33-25

Varietal Description of UI 111 Pinto-Type Field Bean

Origin and breeding

UI 111 pinto-type field bean, released in 1945, was developed at the University of Idaho, Moscow, Idaho from the cross between UI 34 (Red Mexican) and common pinto.

Varietal characteristics

Growth habit: vine type; indeterminate; spreading tendency

Leaves: dull medium green; small to medium; wrinkled

Stem: wiry; thin

Flowers: white

Pods: scattered; flat cross-section; light to medium green when immature, buff with brownish mottling when ripe

Seeds: light brown with brown mottling throughout; elliptical hilum view and cross-section; side view is oval with one end rounded and the other truncated; hilum in whitish with a rusty brown color

Lodging resistance: poor

Maturity: later than Seafarer

Disease reaction: resistant to the common type strain of bean common mosaic virus (BCMV) and curly top virus; not resistant to NY 15 strain of BCMV

Performance

UI 111 has been one of the standard pinto varieties for commercial production, it greatly outyields navy beans such as Seafarer in southern Alberta.

Maintenance of breeder seed

University of Idaho, Kimberly, Idaho

Canadian representative

Alberta Wheat Pool

Canadian distributor

Public

Recommended by

Western Expert Committee on Grain Breeding

Table 1. Agronomic performance of UI 111 pinto bean and check varieties, Alberta Field Bean Trials, 1983-1987*

Variety	Type	Maturity (days)	Yield (kg/ha)	Harvest Index (%)	1000 seed wt. (g)
UI 111	Pinto	111.0	2844.9	50.50	357.10
NW 410	Pinto	106.3	2894.3	—	330.67
Fiesta Pinto	Pinto	103.5	2803.8	49.50	405.09
Kerrwood	Navy	113.0	1461.3	—	200.60
Midland	Navy	114.4	2683.3	53.00	168.14
OAC Seafarth	Navy	108.2	2321.8	46.00	209.80

*Brooks and Bow Island

Table 2. Agronomic performance of UI 111 and check varieties, Manitoba Field Bean Trials, 1981-1987**

Variety	Type	No. of Station Years	Maturity (days)	Yield* % of Seafarer	1000 seed wt. (g)
UI 111	Pinto	10	98.5	137.1	343
Seafarer	Navy	14	96.4	100.0	185
Topaz	Pinto	4	101.2	118.0	319
Fiesta Pinto	Pinto	6	94.0	113.5	370
OAC Seafarth	Navy	8	101.5	105.5	184

*Yield of Seafarer = 1703 kg/ha

**Winnipeg, Brandon, Morden and Portage la Prairie